

Message Text

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PAGE 01 IAEA V 07121 201601Z

42

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TAGS: PARM, TECH, IAEA

SUBJ: TECHNICAL CONSULTANT SUPPORT FOR IAEA SAFEGUARDS

REF: IAEA VIENNA 5966

1. AFTER DISCUSSION WITH MISSION, R. SCHNEIDER AND F. HOUCK GORDON HOUGH (SAFEGUARDS, DIVISION OF DEVELOPMENT) HAS SUPPLIED LIST OF SPECIFIC CONSULTING SERVICES WHICH WOULD BE OF GREAT HELP IN DEVELOPING AGENCY'S SAFE-GUARDS DATA ANALYSIS PROCEDURES IN PARALLEL WITH ADP TASK FORCE. ITEMS OF CONSULTING SUPPORT ARE DESCRIBED BY HOUGH AS FOLLOWS:

A. STATISTICAL ANALYSIS OF MATERIAL BALANCE DATA-CANADA. R. HOOPER (BATTELLE-NORTHEAST) COULD COME INITIALLY FOR ONE TO TWO WEEKS TO STUDY DATA THAT EXIST NOW AND TO AGREE ON HOW DATA SHOULD BE ORGANIZED AND TABULATED. AFTER COLLECTION, ORGANIZATION AND KEY-PUNCHING OF DATA BY AGENCY, HOOPER COULD RETURN TO EXPERIMENT WITH DATA AND PRODUCE REPORT WITH CONCLUSIONS AND RECOMMENDATIONS. BETWEEN VISITS, HOPPER COULD PREPARE COMPUTER PROGRAMS THAT HE MIGHT NEED IN VIENNA TO PROCESS DATA. DATES FOR TWO VISITS COULD BE: 1ST VISIT: 24 SEPTEMBER -8 OCTOBER;
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PAGE 02 IAEA V 07121 201601Z

2ND VISIT: 3 NOVEMBER - WI NOVEMBER.

B. PART F. SAFEGUARDS TECHNICAL MANUAL (STM)
AND PROPAGATION OF OPERATOR MEASUREMENT ERRORS FOR
MUF.

J. JEACH (BATTELLE-NORTHWEST) COULD COME
BEFORE SAFEGUARDS SYMPOSIUM (SAY 6 OCTOBER) TO WORK
ON TWO PROJECTS:

(A) PARTICIPATE WITH REVIEW AND FINAL
DRAFTING OF PART F OF STM, AND (B) PROPOSE ERROR
PROPAGATION MODELS THAT CAN BE PROGRAMMED FOR ADP
OF ACCOUNTING REPORTS FROM STATES IN ORDER TO PROVIDE
LIMITS OF ERROR. THIS WORK WOULD OVERLAP SYMPOSIUM
FOR AS LONG AS NEEDED TO DO JOB.

C. COMPUTER PROGRAMMING OF STATISTICAL MODELS
FOR EVALUATION OF INSPECTION DATA.

K. STEWART (BATTELLE-NORTHWEST) COULD
ASSIST T. BEETLE AND P. SIWY WITH WORK ON THE FOLLOWING:

(A) MODELS FOR PROCESSING OF ANALYTICAL DATA
FROM NWAL IN ORDER TO ESTIMATE COMPONENTS OF VARIANCE.

(B) PAIRED COMPARISON MODELS FOR OPERATOR
AND INSPECTOR MEASUREMENTS.

(C) MODELS FOR PROCESSING DATA FROM
CALIBRATION OF PROCESS VESSELS TO OBTAIN ESTIMATES
OF RANDOM AND SYSTEMATIC ERRORS OF PREDICTED VOLUME.
THIS WORK COULD BEGIN IMMEDIATELY FOLLOWING
SYMPOSIUM FOR AS LONG AS NECESSARY.

D. ISOTOPE CORRELATION TECHNIQUE. CHRISTENSEN
WILL PRESUMABLY BE IN VIENNA FOR ICDB MEETING AND
SAFEGUARDS SYMPOSIUM. MR. SUKHORUCKKIN WILL SEND
PROCEDURE DRAFTS TO HIM SOON AND WILL WANT TO DISCUSS
DETAILS WITH HIM WHEN HE ARRIVES.

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PAGE 03 IAEA V 07121 201601Z

2. COMPLETE TEXT OF DESCRIPTION OF THIS WORK IS BEING
POUCHED TO DEPARTMENT, ERDA, AND ACDA. RE ITEM A,
WE UNDERSTAND THAT VISIT OF HOOPER HAS BEEN AGREED
AND THAT ONLY SPECIFIC DATES SUGGESTED ARE NEW
INFORMATION. RE ITEMS B AND C, MISSION IS NOT
ENTIRELY CLEAR WHETHER THESE SERVICES COULD BE
PROVIDED AS PART OF THE SPECIAL \$200,000 DISCUSSED
IN REFTTEL.

3. MISSION BELIEVES THAT SUCCESSFUL DEVELOPMENT OF ALL ELEMENTS OF AGENCY'S SAFEGUARDS DATA PROCESSING AND EVALUATION SYSTEM IS URGENTLY IMPORTANT TO DEMONSTRATE AND ESTABLISH THAT AGENCY CAN DRAW QUANTITATIVE, INDEPENDENTLY VERIFIED, AND TECHNICALLY VALID CONCLUSIONS FROM INSPECTIONS. HOUGH IS KEY MAN IN THIS EFFORT, AND WE URGE HE RECEIVE ALL U.S. TECHNICAL SUPPORT NECESSARY.

4. ADVISE.LABOWITZ

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